

CONTENTS

(Abstracts/contents lists published in: *Chem. Abstr.*; *Curr. Contents*; *Phys. Chem. Earth Sci.*, *Life Sci.*)

Karl Freudenberg, Burckhardt Helferich, Hermann O. L. Fischer. A centennial tribute F. W. LICHTENTHALER (Darmstadt, F.R.G.)	1
Vom radioaktiven Coniferin zum markierten Turgorin H. SCHILDKNECHT UND R. MILDE (Heidelberg, B.R.D.)	23
Expression of endogenous lectins in human small-cell carcinoma and undifferentiated carcinoma of the lung H.-J. GABIUS, R. ENGELHARDT, AND F. CRAMER (Göttingen, F.R.G.)	33
Primary structure of <i>O</i> - and <i>N</i> -glycosylic carbohydrate chains derived from murine submandibular mucin (MSM) A. V. NIEUW AMERONGEN, C. H. ODERKERK, P. A. ROUKEMA, J. H. WOLF, J. J. W. LISMAN, B. OVERDIJK (Amsterdam, The Netherlands), B. FOURNET, J. MONTREUIL (Villeneuve d'Ascq, France), H. VAN HALBEEK, J. H. G. M. MUTSAERS, AND J. F. G. Vliegenthart (Utrecht, The Netherlands)	43
Die Kristallstruktur eines Derivats der <i>N</i> -Acetyl-4-desoxy-4-iodneuraminsäure P. LUGER, C. ZAKI (Berlin, B.R.D.), H.-W. HAGEDORN, UND R. BROSSMER (Heidelberg, B.R.D.)	49
Chiral building blocks from methyl α -D-mannopyranoside and methyl α -D-glucopyranoside for anthracyclinone synthesis K. KROHN, E. BROSER, AND H. HEINS (Braunschweig, F.R.G.)	59
On the attack of hydroxyl radicals on polyhydric alcohols and sugars and the reduction of the so-formed radicals by 1,4-dithiothreitol M. S. AKHLAQ, S. AL-BAGHDADI, AND C. VON SONNTAG (Mülheim a.d. Ruhr, F.R.G.)	71
Investigations of lignocellulosic materials by the carbon-13 n.m.r. c.p.-m.a.s. method H. STERK, W. SATTLER, AND H. ESTERBAUER (Graz, Austria)	85
"Homogeneous" and "heterogeneous" cellulose triesters and a cellulose triurethane: synthesis and structural investigations of the crystalline state H. STEINMEIER AND P. ZUGENMAIER (Clausthal-Zellerfeld, F.R.G.)	97
¹³ C-N.m.r. spectroscopic study of the homogeneous sulphation of cellulose and xylan in the N ₂ O ₄ -DMF system B. PHILIPP, I. NEHLS, W. WAGENKNECHT (Teltow-Seehof, G.D.R.), AND M. SCHNABEL-RAUCH (Jena, G.D.R.)	107
Structural studies of an extracellular polysaccharide, S-657, elaborated by <i>Xanthomonas</i> ATCC 53159 T. A. CHOWDHURY, B. LINDBERG, U. LINDQUIST (Stockholm, Sweden), AND J. BAIRD (San Diego, CA, U.S.A.)	117
Synthesis of monosaccharides with the aid of a new synthetic equivalent for the glycolaldehyde anion G. WULFF AND A. HANSEN (Düsseldorf, F.R.G.)	123

(Continued overleaf)

(contents continued)

The chemistry of the 1-deoxynojirimycin system. Synthesis of 2-acetamido-1,2-dideoxynojirimycin from 1-deoxynojirimycin H. BÖSHAGEN, F.-R. HEIKER, AND A. M. SCHÜLLER (Wuppertal, F.R.G.)	141
Chiroptical properties of pyranoid glycols in the presence of $[\text{Mo}_2(\text{O}_2\text{CCH}_3)_4]$ A. LIPTÁK (Debrecen, Hungary), J. FRELEK, G. SNATZKE, AND I. VLAHOV (Bochum, F.R.G.)	149
Die Molekülstruktur von vier acetylierten 2,6-Anhydroaldononitrilen ("Glycopyranosylcyaniden") J. KOPF (Hamburg, B.R.D.) UND P. KÖLL (Oldenburg, B.R.D.)	161
Synthesis of acetal- α -glucosides. A stereoselective entry into a new class of compounds L. F. TIETZE, R. FISCHER, H. J. GUDER, A. GOERLACH, M. NEUMANN, AND T. KRACH (Göttingen, F.R.G.)	177
Structure and rearrangement reactions of some diglycosylamines K. LINEK, J. ALFÖLDI (Bratislava, Czechoslovakia), AND J. DEFAYE (Saint Martin d'Hères, France)	195
N.m.r. Untersuchungen und Analytik von <i>N</i> -(1-Desoxy-D-fructos-1-yl)- <i>N</i> -nitroso-L-aminosäuren ("N-Nitrosofructoseaminosäuren") H. RÖPER (Vilvoorde, Belgium)	207
1,3,5-Trideoxy-3,5-di-C-methyl-L-talitol: a chiron for the C-33-C-37 segment of amphotericin B D. LIANG, A. D. SCHUDA, AND B. FRASER-REID (Durham, NC, and College Park, MD, U.S.A.)	229
The effect of high pressure on the stereospecificity of the glycosylation reaction N. K. KOCHETKOV, V. M. ZHULIN, E. M. KLIMOV, N. N. MALYSHEVA, Z. G. MAKAROVA, AND A. YA. OTT (Moscow, U.S.S.R.)	241
Koenigs-Knorr glycosidations with 3,4,6-tri- <i>O</i> -acetyl-2-deoxy-2-[(4,4-dimethyl-2,6-dioxo-cyclohexyldenemethyl)amino]- α -D-glucopyranosyl bromide A. GÓMEZ-SÁNCHEZ, M ^a . DE GRACIA GARCÍA-MARTÍN, AND C. GASCH (Seville, Spain)	255
Application of the trichloroacetimidate method to the synthesis of glycopeptides of the mucin type containing a β -D-Galp-(1 \rightarrow 3)-D-GalpNAc unit W. KINZY AND R. R. SCHMIDT (Konstanz, F.R.G.)	265
Total synthesis of cyclomaltohexaose Y. TAKAHASHI AND T. OGAWA (Wako, Japan)	277
Syntheses of a branched heptasaccharide having phytoalexin-elicitor activity P. FÜGEDI, W. BIRBERG, P. J. GAREGG, AND Å. PILOTTI (Stockholm, Sweden)	297
Glycosylated trehalose. Synthesis of the oligosaccharides of the glycolipid-type antigens from <i>Mycobacterium smegmatis</i> Z. SZURMAI, J. KERÉKGYÁRTÓ, J. HARANGI, AND A. LIPTÁK (Debrecen, Hungary)	313
Neue Synthesen von Aureolsäuretrisacchariden J. THIEM, B. SCHÖTTMER, J. WEIGAND (Münster, B.R.D.), UND M. GERKEN (Hamburg, B.R.D.)	327
The configuration of conduritol and the synthesis of <i>muco</i> -inositol and <i>allo</i> -inositol G. DANGSCHAT (Berlin, Germany) AND H. O. L. FISCHER (Basel, Switzerland)	343

(Continued overleaf)

(contents continued)

Conversion of D-fructose into 4-amino, 4-amino-4-C-methyl, and 3,4,5-triamino derivatives of L-sorbose F. W. LICHTENTHALER, A. PASHALIDIS, AND H. J. LINDNER (Darmstadt, F.R.G.) . . .	357
An enantiospecific synthesis of (R)-1,4,7-trioxaspiro[5.5]undecane from D-fructose K. H. AAMLID, L. HOUGH, A. C. RICHARDSON, AND (in part) D. HENDRY (London, Gt. Britain)	373
Stereochemische Aspekte in Zusammenhang mit der Synthese von 2,6-Anhydro-1-desoxy-1-nitroalditolen A. FÖRTSCH, H. KOGELBERG, UND P. KÖLL (Oldenburg, B.R.D.)	391
Rearrangement of derivatives of bis(ethylsulphonyl)- α -D-lyxopyranosylmethane J. G. BUCHANAN, A. R. EDGAR, AND R. J. HUTCHISON (Edinburgh, Gt. Britain) . . .	403
A synthesis of N-acetylneuraminic acid and [6- ² H]-N-acetylneuraminic acid from N-acetyl-D-glucosamine R. JULINA, I. MÜLLER, A. VASELLA, AND R. WYLER (Zurich, Switzerland)	415
The molecular weight of chitosans studied by laser light-scattering R. A. A. MUZZARELLI, C. LOUGH, AND M. EMANUELLI (Ancona, Italy)	433
Polysaccharides from the roots of the marsh mallow (<i>Althaea officinalis</i> L., var. Rhobusta): structural features of an acidic polysaccharide P. CAPEK, J. ROSÍK, A. Kardošová, AND R. TOMAN (Bratislava, Czechoslovakia) . .	443
<i>Notes</i>	
The Mitsunobu reaction on methyl glycosides as alcohol component K. WEINGES, S. HAREMSA, AND W. MAURER (Heidelberg, F.R.G.)	453
The synthesis and stereochemistry of D-threo-3,4-hexodiulose derivatives J. KUSZMANN, G. MEDGYES, AND G. JERKOVICS (Budapest, Hungary)	459
Synthesis of 3,4-dideoxy-DL-hex-3-enopyranosides from 5-hydroxymethyl-2-furaldehyde R. BOGNÁR, P. HERCZEGH, M. ZSÉLY, AND G. BATTÁ (Debrecen, Hungary)	465
Convenient synthesis of a building-block derivative of nigerose B. DOBOSZEWSKI AND A. ZAMOJSKI (Warsaw, Poland)*	470
1-O- α -D-Glucopyranosyl-D-fructose: Darstellung aus Saccharose und ihre Reduktion zu 1-O- α -D-Glucopyranosyl-D-glucitol M. MUNIR, B. SCHNEIDER, UND H. SCHIWECK (Obrigheim/Pfalz, B.R.D.)	477
Preparation of some carbohydrate pyrazolines by cycloaddition of diazomethane to nitroalkenic sugars H. H. BAER AND I. GILRON (Ottawa, Ont., Canada)	486
A general approach to the synthesis of 2,3-di-O-protected derivatives of D-glyceraldehyde J. JURCZAK, T. BAUER, AND M. CHMIELEWSKI (Warsaw, Poland)	493
Synthesis of methyl shikimate from methyl (1,3,4/2,5)-2,3,4,5-tetrahydroxycyclohexane-1-carboxylate S. OGAWA, Y. AOKI, AND T. TAKAGAKI (Yokohama, Japan)	499
<i>Announcement</i>	c1
<i>Author index</i>	c3
<i>Subject index</i>	c5

